

**What is claimed is:**

1. An apparatus which presents a schedule to a user depending on a situation, comprising:

5        an input device inputting a schedule comprising a sequence of instructions based on a predetermined specification which can be described by a set of at least place information and time information, a schedule to be performed according to the place information and the  
10        time information, and a method of presenting the user with the schedule;

      a device performing one of obtaining a situation of a current place and a current time, and generating a situation of a virtual current place and a virtual  
15        current time;

      a process device processing an instruction described in the input schedule depending on the current place and the current time obtained by one of obtaining the situation and generating the situation; and

20        a presentation device presenting a schedule according to a process of the instruction.

2. The apparatus according to claim 1, further comprising

25        a device suggesting and performing an action

corresponding to the schedule, wherein

said input device inputs a schedule containing a method of suggesting and performing the action.

5 3. The apparatus according to claim 2, wherein

said schedule is described in a markup language which identifies using a tag the place information, the time information, the schedule to be performed, the method of presenting the user with the schedule, the method  
10 of suggesting and performing the action corresponding to the schedule, and other components of the instructions.

4. The apparatus according to claim 2, wherein

said process device executes an instruction when  
15 said place information corresponds to one of the current place of the user and the virtual current place and said time information corresponds to one of the current time and the virtual current time.

20 5. The apparatus according to claim 2, wherein

said input device inputs a user-specified schedule by one of communicating with an external device for providing a schedule through a network, reading from a computer-readable electronic medium, and inputting  
25 a schedule by the user.

6. The apparatus according to claim 2, further comprising:

5 a conversion device analyzing the input schedule and converting the schedule into structured data for schedule management, wherein

said process device executes an instruction represented in a form of the structured data for schedule management.

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7. An apparatus which presents a schedule to a user depending on a situation, comprising:

15 an input device inputting a schedule comprising a sequence of instructions based on a predetermined specification capable of describing place information and time information, and ~~a method of presenting a schedule to be processed according to a place and a time corresponding to the place information and the time information, using a set of a name identifying a type of each piece of~~  
20 information and contents of the information;

a setting device setting as an operation mode one of a real mode and a simulation mode, by one of inputting an operation by the user and setting by a system;

25 an obtaining device obtaining a situation of a current time and a current place in the real mode;

a generation device generating a situation of a virtual current time and a virtual current place in the simulation mode;

5 a process device processing an instruction described in the input schedule depending on the current place and the current time obtained by obtaining the situation in the real mode and depending on the virtual current place and the virtual current time obtained by generating the situation in the simulation mode; and

10 a presentation device presenting a schedule according to a process of the instruction.

8. The apparatus according to claim 7, further comprising

15 a device suggesting and performing an action corresponding to the schedule, wherein

said input device inputs a schedule containing a method of suggesting and performing the action.

20 9. A method of presenting a schedule to a user depending on a situation, comprising:

inputting a schedule comprising a sequence of instructions based on a predetermined specification capable of describing place information and time information, a method of presenting a schedule to be

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processed according to a place and a time corresponding to the place information and the time information, and a method of suggesting and performing an action corresponding to the schedule, using a set of a name  
 5 identifying a type of each piece of information and contents of the information, by one of communicating through a network, reading from an electronic medium, and inputting by the user;

performing one of obtaining a situation of a current  
 10 place and a current time and generating a situation of a virtual current place and a virtual current time;

processing an instruction described in the input schedule depending on the current time and current place obtained by one of obtaining the situation and generating  
 15 the situation; and

performing one of presenting a schedule, and suggesting and performing an action corresponding to the schedule, according to a process of the instruction.

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10. A method of presenting a schedule to a user depending on a situation, comprising:

inputting a schedule comprising a sequence of instructions based on a predetermined specification  
 25 capable of describing place information and time

information, a method of presenting a schedule to be processed according to a place and a time corresponding to the place information and the time information, and a method of suggesting and performing an action corresponding to the schedule, using a set of a name identifying a type of each piece of information and contents of the information;

setting as an operation mode one of a real mode and a simulation mode, by one of inputting an operation by the user and setting by a system;

obtaining a situation of a current time and a current place in the real mode, and generating a situation of a virtual current time and a virtual current place in the simulation mode;

processing an instruction described in the input schedule depending on the current place and the current time obtained by obtaining the situation in the real mode and depending on the virtual current place and the virtual current time obtained by generating the situation in the simulation mode; and

performing one of presenting a schedule, and suggesting and performing an action corresponding to the schedule, according to a process of the instruction.

11. A storage medium storing a program for a computer

presenting a schedule to a user depending on a situation,  
said program enabling the computer to perform:

inputting a schedule comprising a sequence of  
instructions based on a predetermined specification  
5 capable of describing place information and time  
information, a method of presenting a schedule to be  
processed according to a place and a time corresponding  
to the place information and the time information, and  
a method of suggesting and performing an action  
10 corresponding to the schedule, using a set of a name  
identifying a type of each piece of information and  
contents of the information, by one of communicating  
through a network, reading from an electronic medium,  
and inputting by the user;

15 performing one of obtaining a situation of a current  
place and a current time and generating a situation of  
a virtual current place and a virtual current time;

processing an instruction described in the input  
schedule depending on the current time and current place  
20 obtained by one of obtaining the situation and generating  
the situation; and

performing one of presenting a schedule, and  
suggesting and performing an action corresponding to  
the schedule, according to a process of the instruction.

12. A storage medium storing a program for a computer presenting a schedule to a user depending on a situation, said program enabling the computer to perform:

inputting a schedule comprising a sequence of  
 5 instructions based on a predetermined specification capable of describing place information and time information, a method of presenting a schedule to be processed according to a place and a time corresponding to the place information and the time information, and  
 10 a method of suggesting and performing an action corresponding to the schedule, using a set of a name identifying a type of each piece of information and contents of the information;

setting as an operation mode one of a real mode  
 15 and a simulation mode, by one of inputting an operation by the user and setting by a system;

obtaining a situation of a current time and a current place in the real mode, and generating a situation of a virtual current time and a virtual current place in  
 20 the simulation mode;

processing an instruction described in the input schedule depending on the current place and the current time obtained by obtaining the situation in the real mode and depending on the virtual current place and the  
 25 virtual current time obtained by generating the situation



in the simulation mode; and

performing one of presenting a schedule, and suggesting and performing an action corresponding to the schedule, according to a process of the instruction.

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13. A computer-readable storage medium for a computer presenting a schedule to a user depending on a situation, storing schedule data:

wherein said schedule data comprise an electronic  
 10 code string described in a markup language based on a predetermined specification, said code string including a sequence of instructions based on a predetermined specification capable of describing place information and time information, a method of presenting a schedule  
 15 to be processed according to a place and a time corresponding to the place information and the time information, and a method of suggesting and performing an action corresponding to the schedule, using a set of a name identifying a type of each piece of information  
 20 and contents of the information; and

wherein said schedule data are read and used by the computer for presenting a schedule to the user, and suggesting and performing an action corresponding to the schedule according to the instructions.

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14. An automatic schedule generation apparatus which automatically generates a schedule to be presented to a user depending on a situation, comprising:

5 a device obtaining a situation of a current time and a current place one of at predetermined time intervals, at predetermined places, at predetermined distances, at each matching item in a prepared user action list, for each characteristic user action, and for a user instruction;

10 a device estimating a user action performed when the situation is obtained, and determining a schedule and one of a method of presenting the schedule to the user depending on the schedule and a method of suggesting and performing an action depending on the schedule;

15 a device generating schedule data comprising a sequence of instructions based on a predetermined specification capable of describing place information and time information, a method of presenting the schedule to be processed according to a place and a time  
20 corresponding to the place information and the time information, and a method of suggesting and performing an action corresponding to the schedule, using a set of a name identifying a type of information and contents of the information, according to obtained and determined  
25 information about the schedule; and

a device storing generated schedule data in an electronic medium.

15. A schedule presentation apparatus which presents  
5 a user with information corresponding a schedule, comprising:

an input device inputting data comprising a sequence  
of a predetermined specification which can be described  
by a set of a place condition and a time condition, and  
10 a schedule to be performed based on the place condition  
and time condition; and

a process device processing the schedule described  
in the input data depending on a range of a place information  
and a range of a time information to be presented to  
15 the user.

16. The apparatus according to claim 15, further comprising

a display device displaying the schedule described  
20 in the input data together with the place condition on  
a map corresponding to the range of the place information.

17. The apparatus according to claim 16, wherein

said display device displays the schedule when a  
25 range of the place condition is contained in a display

range of the map.

18. The apparatus according to claim 16, wherein  
said display device displays an order of executing  
5 a plurality of schedules when the plurality of schedules  
having a series of place conditions are displayed on  
the map, by sequentially connecting the plurality of  
schedules using lines.

10 19. The apparatus according to claim 15, further  
comprising

a display device displaying a map corresponding  
to the range of the place information and a time axis  
schedule table corresponding to the range of the time  
15 information, and displaying the schedule described in  
the input data on the map together with the place condition,  
and on the time axis schedule table together with the  
time condition when a range of the place condition is  
contained in a display range of the map and a range of  
20 the time condition is contained in a display range of  
the time axis schedule table.

20. A schedule presentation apparatus which presents  
a user with information corresponding a schedule,  
25 comprising:

an input device inputting data comprising a sequence of a predetermined specification which can be described by a set of a place condition and a time condition, a schedule to be performed based on the place condition and time condition, and a method of presenting a user with presentation information for the schedule; and

a process device processing at least one of the schedule described in the input data and the presentation information for the schedule depending on a range of a place information and a range of a time information to be presented to a user.

21. A schedule presentation apparatus which presents a user with information corresponding a schedule, comprising:

an input device inputting data comprising a sequence of a predetermined specification which can be described by a set of a place condition and a time condition, a schedule to be performed based on the place condition and time condition, and a method of presenting a user with presentation information for the schedule;

a device performing one of obtaining a situation of a current place and a current time, and generating a situation of a virtual current place and a virtual current time; and

a process device processing at least one of the schedule described in the input data and the presentation information for the schedule depending on the current place and the current time obtained by one of obtaining  
 5 the situation and generating the situation.

22. The apparatus according to claim 21, further comprising

a display device displaying a map, and displaying  
 10 on the map at least one of the schedule described in the input data and the presentation information for the schedule, together with the place condition.

23. The apparatus according to claim 22, wherein  
 15 said display device changes a display range of the map as the current place moves, and displays a schedule having a place condition contained in the changed display range.

20 ~~24.~~ A schedule presentation apparatus which presents a user with information corresponding a schedule, comprising:

an input device inputting data comprising a sequence of a predetermined specification which can be described  
 25 by a set of a place condition and a time condition, a

schedule to be performed based on the place condition and time condition, a method of presenting a user with presentation information for the schedule, and an action to be performed for the schedule;

- 5           a device performing one of obtaining a situation of a current place and a current time, and generating a situation of a virtual current place and a virtual current time; and

- 10           a process device processing at least one of the schedule described in the input data and the presentation information for the schedule depending on the current place and the current time obtained by one of obtaining the situation and generating the situation; and

- 15           an execution device performing the action to be performed for the schedule described in the input data depending on the current place and the current time obtained by one of obtaining the situation and generating the situation.

- 20    ~~25~~. A schedule presentation apparatus which presents a user with information corresponding a schedule, comprising:

- input means for inputting data comprising a sequence of a predetermined specification which can be described  
25    by a set of a place condition and a time condition, and

a schedule to be performed based on the place condition and time condition; and

process means for processing the schedule described in the input data depending on a range of a place information  
 5 and a range of a time information to be presented to the user.

26. A schedule presentation apparatus which presents a user with information corresponding a schedule,  
 10 comprising:

input means for inputting data comprising a sequence of a predetermined specification which can be described by a set of a place condition and a time condition, a schedule to be performed based on the place condition  
 15 and time condition, and a method of presenting the user with presentation information for the schedule;

means for performing one of obtaining a situation of a current place and a current time, and generating a situation of a virtual current place and a virtual  
 20 current time; and

process means for processing at least one of the schedule described in the input data and the presentation information for the schedule depending on the current place and the current time obtained by one of obtaining  
 25 the situation and generating the situation.